

Ignition coils, ignition transformers

(Replaces 4th edition of 05.1986)

Testing

Visual inspection:

Inspect ignition coil/ignition transformer for damage (dropped or impact), broken-off terminal studs (assembly error), scorching on cover (caused by poorly connected leads or lack of rubber cap), missing screw plug, sealing-compound leakage and cold-soldering points at terminals 1 or 15 and/or A or B.

Resistance test:

Resistance testing is performed using an ohmmeter with a measuring range from m ohms to k ohms, e.g. MOT 301 (0 684 000 301), at ambient temperature (+ 15° ... + 40° C). Temperature has a pronounced effect on measured value.

Part No. 0 221 ..	Primary resistance ohms + 15° C ... + 40° C	Secondary resistance k ohms + 15° C ... 40° C
001 001	0.83 ... 1.1	4.3 ... 7.3
002 001	1.5 ... 2.2	4.3 ... 7.3
002 100	1.5 ... 2.2	4.3 ... 7.3
005 002	4.1 ... 5.7	7.0 ... 9.6
100 006	1.0 ... 1.4	5.0 ... 8.3
100 011	1.0 ... 1.4	4.7 ... 7.9
100 012	1.0 ... 1.4	4.7 ... 7.9
100 013	1.0 ... 1.4	4.7 ... 7.9
100 018	1.0 ... 1.4	5.0 ... 8.3

Part No.
0 221 ..

Primary resistance
ohms
+ 15° C ... + 40° C

Secondary resistance
k ohms
+ 15° C ... 40° C

100 022	1.0 ... 1.4	4.7 ... 7.9
100 023	1.2 ... 1.7	3.4 ... 5.7
100 024	1.5 ... 2.2	5.0 ... 8.3
100 025	1.0 ... 1.4	4.7 ... 7.9
100 026	1.0 ... 1.4	4.7 ... 7.9
100 028	1.0 ... 1.4	4.7 ... 7.9
100 313	0.6 ... 0.9	3.6 ... 5.5
101 003	1.1 ... 1.5	9.5 ... 13.8
101 007	1.1 ... 1.5	9.5 ... 13.8
101 014	0.9 ... 1.2	7.2 ... 12.1
101 023	1.1 ... 1.5	9.5 ... 13.8
101 028	0.9 ... 1.2	7.2 ... 12.1
101 029	0.9 ... 1.2	7.2 ... 12.1
101 030	1.1 ... 1.5	9.5 ... 13.8
102 003	2.4 ... 3.3	6.3 ... 12.1
102 004	1.6 ... 2.2	7.2 ... 12.1
102 006	3.0 ... 4.2	7.2 ... 12.1
102 007	3.0 ... 4.2	7.2 ... 12.1
102 008	1.6 ... 2.2	7.2 ... 12.1
102 012	2.7 ... 3.6	7.2 ... 10.2
102 014	3.0 ... 4.2	7.2 ... 12.1
102 016	2.7 ... 3.6	7.2 ... 10.2
102 031	0.94 ... 1.3	8.4 ... 13.9
102 032	2.7 ... 3.6	9.5 ... 13.8
102 034	3.0 ... 4.2	7.2 ... 12.1
102 036	1.6 ... 2.2	7.2 ... 12.1
102 037	2.7 ... 3.6	9.5 ... 13.8
102 038	2.7 ... 3.6	6.3 ... 10.2
102 040	3.0 ... 4.2	7.2 ... 12.1
102 041	2.7 ... 3.6	6.3 ... 10.2
102 042	1.6 ... 2.2	7.2 ... 12.1
102 044	3.0 ... 4.2	7.2 ... 12.1
102 046	1.6 ... 2.2	7.2 ... 12.1
102 047	1.6 ... 2.2	7.2 ... 12.1

Part No.
0 221 ..

Primary resistance
ohms
+ 15° C ... + 40° C

Secondary resistance
k ohms
+ 15° C ... 40° C

102 049	2.7 ... 3.6	6.3 ... 10.2
102 050	1.6 ... 2.2	11.3 ... 16.0
102 051	1.6 ... 2.2	7.2 ... 12.1
102 052	2.7 ... 3.6	6.3 ... 10.2
102 053	0.8 ... 1.2	6.3 ... 10.2
102 054	3.0 ... 4.2	7.2 ... 12.1
102 055	3.3 ... 4.2	7.2 ... 12.1
102 060	1.6 ... 2.2	7.2 ... 12.1
102 061	0.94 ... 1.3	8.4 ... 13.9
102 062	0.8 ... 1.2	6.3 ... 10.2
102 063	0.8 ... 1.2	6.3 ... 10.2
102 064	1.6 ... 2.2	7.2 ... 12.1
102 065	0.8 ... 1.2	7.2 ... 12.1
102 066	0.8 ... 1.2	6.3 ... 10.2
102 067	3.0 ... 4.2	7.2 ... 12.1
102 068	2.7 ... 3.6	6.3 ... 10.2
102 069	1.6 ... 2.2	7.2 ... 12.1
102 070	1.2 ... 1.7	6.3 ... 10.2
102 071	1.2 ... 1.7	7.2 ... 12.1
102 072	1.6 ... 2.2	7.2 ... 16.0
102 073	1.2 ... 1.7	6.3 ... 10.2
102 074	2.6 ... 3.5	7.2 ... 12.1
102 075	2.6 ... 3.5	7.2 ... 12.1
102 076	2.6 ... 3.5	7.2 ... 12.1
102 077	2.6 ... 3.5	7.2 ... 12.1
102 078	1.2 ... 1.7	9.9 ... 16.5
102 079	1.2 ... 1.7	9.9 ... 16.5
102 081	1.2 ... 1.7	7.2 ... 16.0
102 082	2.4 ... 3.0	6.3 ... 12.1
102 083	1.2 ... 1.7	7.2 ... 16.5
102 084	1.6 ... 2.2	7.2 ... 12.1
102 085	2.4 ... 3.0	6.3 ... 12.1
102 086	1.2 ... 1.6	7.5 ... 12.0
102 087	1.2 ... 1.6	11.9 ... 15.4
102 088	0.6 ... 0.75	2.5 ... 3.6
102 089	1.7 ... 2.1	11.9 ... 15.4
102 090	2.5 ... 3.2	9.0 ... 11.7
102 091	—	—

Part No.
0 221 ..

Primary resistance
ohms
+ 15° C ... + 40° C

Secondary resistance
k ohms
+ 15° C ... 40° C

103 001	4.4 ... 6.3	9.9 ... 16.5
103 002	4.4 ... 6.3	9.9 ... 16.5
106 001	0.59... 0.83	6.3 ... 10.2
106 005	0.59... 0.83	6.3 ... 10.2
107 001	1.8 ... 2.4	7.2 ... 12.1
107 005	1.8 ... 2.4	7.2 ... 12.1
107 006	3.0 ... 4.2	7.2 ... 12.1
107 007	3.0 ... 4.2	7.2 ... 12.1
107 008	3.0 ... 4.2	7.2 ... 12.1
108 003	4.4 ... 6.3	9.9 ... 16.5
109 012	1.1 ... 1.5	9.9 ... 13.3
110 001	4.4 ... 6.3	9.9 ... 16.5
110 003	4.4 ... 6.3	9.9 ... 16.5
111 001	3.0 ... 4.2	7.2 ... 12.1
111 003	1.6 ... 2.2	7.2 ... 12.1
111 004	3.0 ... 4.2	7.2 ... 12.1
111 005	3.0 ... 4.2	7.2 ... 12.1
111 006	3.0 ... 4.2	7.2 ... 12.1
111 007	3.0 ... 4.2	7.2 ... 12.1
111 011	3.2 ... 4.2	7.8 ... 11.9
111 012	3.0 ... 4.2	7.2 ... 12.1
111 013	3.0 ... 4.2	7.2 ... 12.1
111 014	3.0 ... 4.2	7.2 ... 12.1
111 016	3.0 ... 4.2	7.2 ... 12.1
111 018	3.0 ... 4.2	7.2 ... 12.1
111 019	3.0 ... 4.2	7.2 ... 12.1
111 020	3.0 ... 4.2	7.2 ... 12.1
111 021	3.0 ... 4.2	7.2 ... 12.1
111 022	3.0 ... 4.2	7.2 ... 12.1

Part No.
0 221 ..

Primary resistance
ohms
+ 15° C ... + 40° C

Secondary resistance
k ohms
+ 15° C ... 40° C

Part No.	Notes	Primary resistance ohms + 15° C ... + 40° C	Secondary resistance k ohms + 15° C ... 40° C
111 023	(1)	2.5 ... 3.3	6.8 ... 9.6
112 001	(2)	4.4 ... 6.3	9.9 ... 16.5
112 002	(2)	4.4 ... 6.3	9.9 ... 16.5
112 005	(2)	4.4 ... 6.3	9.9 ... 16.5
112 006	(2)	4.4 ... 6.3	9.9 ... 16.5
112 007		4.4 ... 6.3	9.9 ... 16.5
112 100		0.77 ... 1.0	5.8 ... 3.1
112 101		0.77 ... 1.0	5.8 ... 8.1
113 001		4.4 ... 6.3	9.9 ... 16.5
113 002		4.4 ... 6.3	9.9 ... 16.5
113 003		4.4 ... 6.3	9.9 ... 16.5
113 004		2.8 ... 3.7	7.2 ... 12.1
113 005		0.47 ... 0.64	7.2 ... 12.1
114 001		3.3 ... 4.4	5.0 ... 8.3
114 002		3.3 ... 4.4	5.0 ... 8.3
114 004		3.4 ... 4.5	6.3 ... 10.2
114 006		3.4 ... 4.5	6.3 ... 10.2
114 010		3.4 ... 4.5	6.3 ... 10.2
114 013		3.4 ... 4.5	6.3 ... 10.2
114 014		3.4 ... 4.5	6.3 ... 10.2
114 015		3.4 ... 4.5	6.3 ... 10.2
114 016		3.4 ... 4.5	6.3 ... 10.2
114 017		3.4 ... 4.5	6.3 ... 10.2
114 020		3.4 ... 4.5	6.3 ... 10.2
114 021		3.4 ... 4.5	6.3 ... 10.2
114 025		3.4 ... 4.5	6.3 ... 10.2
115 001		2.9 ... 4.0	5.9 ... 8.3
115 002		2.9 ... 4.0	5.9 ... 8.3

(1) = With series resistor in heavy-gauge hose.
Measured between term. 1 of ignition coil and term. 15
at ignition lock (one of the two 4 mm pins).
Ignition lock in "ON" position.

(2) = Test without interference-suppression cable.

Part No.
0 221 ..

Primary resistance
ohms
+ 15° C ... + 40° C

Secondary resistance
k ohms
+ 15° C ... 40° C

118 001	0.39... 0.53	11.7 ... 16.5
118 002	0.34... 0.47	8.6 ... 13.2
118 003	0.34... 0.47	8.6 ... 13.2
118 004	0.34... 0.47	8.6 ... 13.2
118 005	0.34... 0.47	7.2 ... 12.1
118 307	0.40... 0.70	8.5 ... 11.2
118 308	0.40... 0.70	8.5 ... 11.2
118 322	0.40... 0.60	5.0 ... 7.2
118 329	0.30... 0.50	7.2 ... 11.0
118 330	0.30... 0.45	7.5 ... 10.6
118 335	0.40... 0.60	5.0 ... 7.0
118 351	0.66... 0.82	6.8 ... 9.1
118 352	0.44... 0.60	4.9 ... 6.7
118 383	0.44... 0.60	4.9 ... 6.7
118 387	0.66... 0.82	6.9 ... 9.1
119 001	2.7 ... 3.6	6.3 ... 10.2
119 002	1.2 ... 1.7	6.3 ... 10.2
119 005	1.2 ... 1.7	6.3 ... 10.2
119 006	1.2 ... 1.7	6.3 ... 10.2
119 007	1.2 ... 1.7	6.3 ... 10.2
119 008	2.7 ... 3.6	9.5 ... 13.8
119 009	1.6 ... 2.2	7.2 ... 12.1
119 011	1.2 ... 1.7	7.2 ... 16.0
119 012	1.2 ... 1.7	6.3 ... 10.2
119 013	1.2 ... 1.7	6.3 ... 10.2
119 014	2.7 ... 3.6	9.5 ... 13.8
119 015	1.2 ... 1.7	11.3 ... 16.0
119 016	1.6 ... 2.2	11.3 ... 16.0
119 017	1.6 ... 2.2	11.3 ... 16.0
119 018	2.7 ... 3.6	9.5 ... 13.8
119 020	2.4 ... 3.3	8.6 ... 12.1
119 021	1.6 ... 2.2	7.2 ... 12.1
119 022	1.6 ... 2.2	7.2 ... 12.1
119 023	1.2 ... 1.7	7.2 ... 12.1
119 024	2.4 ... 3.3	8.6 ... 12.1

Part No.
0 221 ..

Primary resistance
ohms
+ 15° C ... + 40° C

Secondary resistance
k ohms
+ 15° C ... 40° C

119 025	2.4 ... 3.3	8.6 ... 12.1
119 026	2.4 ... 3.3	8.6 ... 12.1
119 027	2.4 ... 3.3	8.6 ... 12.1
119 028	2.4 ... 3.3	8.5 ... 12.1
119 030	1.2 ... 1.7	7.2 ... 16.0
119 031	1.2 ... 1.7	7.2 ... 16.0
119 034	2.7 ... 3.6	9.5 ... 13.8
119 035	2.7 ... 3.6	9.5 ... 13.8
119 036	1.6 ... 2.2	7.2 ... 12.1
119 037	1.6 ... 2.2	7.2 ... 12.1
119 038	1.6 ... 2.2	11.3 ... 16.0
119 039	2.4 ... 3.3	8.6 ... 12.1
119 040	2.4 ... 3.3	8.6 ... 12.1
119 044	1.6 ... 2.2	7.2 ... 12.1
119 045	1.0 ... 1.4	4.7 ... 7.9
119 046	1.0 ... 1.4	4.7 ... 7.9
119 047	1.2 ... 1.7	11.3 ... 16.0
119 048	2.4 ... 3.3	8.6 ... 12.1
119 050	1.2 ... 1.7	7.2 ... 16.0
119 051	1.6 ... 2.2	5.0 ... 7.2
119 053	1.2 ... 1.7	11.3 ... 16.0
119 054	1.2 ... 1.5	7.5 ... 12.0
119 055	1.2 ... 1.5	4.9 ... 7.7
119 305	1.5 ... 2.4	6.4 ... 12.4
119 332	1.6 ... 2.3	7.2 ... 12.1
119 353	1.2 ... 1.5	5.0 ... 7.7
119 354	1.2 ... 1.5	5.0 ... 7.7
119 355	1.7 ... 2.2	10.7 ... 14.0
119 356	1.7 ... 2.2	10.7 ... 14.0
119 359	2.6 ... 3.3	8.8 ... 13.4
119 368	2.6 ... 3.3	8.8 ... 13.4
119 373	1.2 ... 1.5	5.0 ... 7.7
119 381	1.2 ... 1.7	12.2 ... 15.7
120 002	1.7 ... 2.3	8.4 ... 13.9
120 003	1.7 ... 2.3	8.4 ... 13.9

Part No.
0 221 ..

Primary resistance
ohms
+ 15° C ... + 40° C

Secondary resistance
k ohms
+ 15° C ... 40° C

Part No.	Primary resistance ohms + 15° C ... + 40° C	Secondary resistance k ohms + 15° C ... 40° C
121 001	0.42... 0.63	0.59... 0.86
121 002	0.42... 0.63	0.59... 0.86
121 004	0.10... 0.17	0.39... 0.64
121 005	0.10... 0.17	0.39... 0.64
121 006	0.42... 0.63	0.59... 0.86
121 008	0.10... 0.17	0.39... 0.64
121 009	0.10... 0.17	0.39... 0.64
121 010	0.10... 0.17	0.39... 0.64
122 001	0.34... 0.47	7.2 ... 12.1
122 002	1.6 ... 2.2	7.2 ... 12.1
122 003	0.34... 0.47	7.2 ... 12.1
122 004	1.6 ... 2.2	7.2 ... 12.1
122 005	1.2 ... 1.7	7.2 ... 12.1
122 006	1.6 ... 2.2	7.2 ... 12.1
122 007	0.34... 0.47	7.2 ... 12.1
122 008	1.0 ... 1.4	5.8 ... 8.1
122 009	1.0 ... 1.4	5.8 ... 8.1
122 010	0.34... 0.47	7.2 ... 12.1
122 012	1.2 ... 1.7	6.3 ... 10.2
122 014	1.1 ... 1.4	6.0 ... 7.9
122 015	1.0 ... 1.4	5.8 ... 8.1
122 016	1.0 ... 1.4	6.9 ... 10.2
122 017	1.0 ... 1.4	6.9 ... 10.2
122 019	0.34... 0.47	7.2 ... 12.1
122 020	0.34... 0.47	7.2 ... 12.1
122 022	0.57... 0.75	2.5 ... 3.5
122 023	0.57... 0.75	2.5 ... 3.5
122 024	0.57... 0.75	2.5 ... 3.5
122 025	0.60... 0.81	3.2 ... 4.6
122 026	0.50... 0.90	3.1 ... 4.7
122 027	1.2 ... 1.7	6.3 ... 10.2
122 029	0.60... 0.81	3.2 ... 4.6
122 030	0.68... 0.91	4.3 ... 7.3
122 031	0.68... 0.91	4.3 ... 7.3
122 032	0.4 ... 0.6	5.0 ... 7.0
122 303	0.4 ... 1.0	5.6 ... 9.7
122 304	0.4 ... 0.9	2.2 ... 4.0
122 304		
as of MD 049	0.6 ... 0.9	6.3 ... 9.3

Part No.
0 221 ..

Primary resistance
ohms
+ 15° C ... + 40° C

Secondary resistance
k ohms
+ 15° C ... 40° C

122 312	0.2 ... 0.6	6.3 ... 13.2
122 314	0.4 ... 1.0	5.6 ... 9.7
122 316	0.7 ... 1.0	6.3 ... 8.8
122 317	0.6 ... 1.0	6.0 ... 10.9
122 319	0.6 ... 1.0	6.0 ... 10.9
122 323	0.6 ... 0.9	6.3 ... 9.3
122 324	0.6 ... 0.9	6.3 ... 9.3
122 327	0.6 ... 0.9	6.3 ... 9.3
122 333	0.6 ... 1.0	6.0 ... 10.9
122 334	0.6 ... 0.8	6.6 ... 9.0
122 339	0.6 ... 0.8	6.6 ... 9.0
122 341	0.4 ... 0.6	5.0 ... 7.0
122 342	0.7 ... 0.9	4.5 ... 7.0
122 344	0.4 ... 0.6	5.0 ... 7.0
122 345	1.1 ... 1.4	7.2 ... 9.9
122 346	1.1 ... 1.4	7.2 ... 9.9
122 347	0.63 ... 0.79	8.8 ... 13.4
122 349	0.6 ... 0.75	2.5 ... 3.6
122 350	0.6 ... 0.75	2.5 ... 3.6
122 357	0.66 ... 0.82	6.8 ... 9.1
122 358	0.66 ... 0.82	6.8 ... 9.1
122 360	0.76 ... 0.93	7.3 ... 9.8
122 361	0.46 ... 0.58	5.0 ... 6.6
122 362	0.70 ... 0.89	6.8 ... 9.1
122 364	0.66 ... 0.82	6.8 ... 8.4
122 365	0.76 ... 0.93	7.3 ... 9.7
122 366	0.72 ... 0.93	4.6 ... 6.5
122 367	1.1 ... 1.40	3.4 ... 4.6
122 369	0.66 ... 0.82	6.8 ... 9.1
122 378	0.76 ... 0.93	7.3 ... 9.8
122 379	0.61 ... 0.74	2.7 ... 3.5
122 380	0.61 ... 0.74	2.7 ... 3.5
122 382	0.76 ... 0.93	7.3 ... 9.8

Part No.
0 221 ..

Primary resistance
ohms
+ 15° C ... + 40° C

Secondary resistance
k ohms
+ 15° C ... 40° C

122 385	0.62... 0.74	2.6 ... 3.7
122 386	0.62... 0.74	2.6 ... 3.7
122 388	0.62... 0.74	2.6 ... 3.7
122 389	0.62... 0.74	2.6 ... 3.7
122 390	0.73... 0.88	6.9 ... 9.1
122 392	0.73... 0.88	6.9 ... 9.1
122 399	0.67... 0.82	6.9 ... 9.1
122 400	0.67... 0.82	6.9 ... 9.1
123 001	2.7 ... 3.6	5.0 ... 7.2
123 002	2.7 ... 3.6	5.0 ... 7.2
123 004	2.7 ... 3.6	5.0 ... 7.2
123 005	2.7 ... 3.6	5.0 ... 7.2
123 006	2.7 ... 3.6	5.0 ... 7.2
123 007	2.7 ... 3.6	5.0 ... 7.2
123 008	2.7 ... 3.6	5.0 ... 7.2
123 011	2.7 ... 3.6	5.0 ... 7.2
123 012	2.8 ... 3.9	6.7 ... 9.9
124 001	1.0 ... 1.5	9.4 ... 13.8
125 010	0.69... 0.9	8.2 ... 11.3
500 200	1.0 ... 1.5	7.1 ... 9.6
500 201	2.0 ... 2.5	8.8 ... 11.9
500 202	1.8 ... 2.2	10.6 ... 14.3
500 203	0.9 ... 1.1	10.6 ... 14.3
501 002	1.1 ... 1.4	4.6 ... 6.4
501 003	0.35... 0.44	7.8 ... 10.8
501 004	0.35... 0.44	7.8 ... 10.8
501 007	0.35... 0.44	7.8 ... 10.8
501 008	0.35... 0.44	7.8 ... 10.8
501 374	0.21... 0.29	7.8 ... 10.8
501 375	0.21... 0.29	7.8 ... 10.8
501 376	0.21... 0.29	7.8 ... 10.8
501 377	0.21... 0.29	7.8 ... 10.8

Part No.
1 227 ..

Primary resistance
ohms
+ 15° C ... + 40° C

Secondary resistance
k ohms
+ 15° C ... 40° C

020 009	0.66... 0.82	6.8 ... 9.1
020 010	0.7 ... 1.0	6.7 ... 10.0
020 011	0.7 ... 0.9	6.3 ... 9.6
020 014	0.66... 0.82	6.8 ... 9.1
020 015	0.66... 0.82	6.8 ... 9.1
020 016	0.66... 0.82	6.8 ... 9.1
020 017	0.7 ... 0.89	6.8 ... 9.1
020 018	0.66... 0.82	6.8 ... 9.1
020 020	0.66... 0.82	6.8 ... 9.1
020 021	0.66... 0.82	6.8 ... 9.1
020 022	0.46... 0.57	5.0 ... 6.6
020 023	0.47... 0.82	6.9 ... 9.1
020 024	0.76... 0.93	7.4 ... 9.7
020 025	0.76... 0.93	7.4 ... 9.7
020 026	0.67... 0.82	6.9 ... 9.1
020 027	0.67... 0.82	6.9 ... 9.1
020 028	0.67... 0.82	6.9 ... 9.1
020 029	0.67... 0.82	6.9 ... 9.1
020 030	0.67... 0.82	6.9 ... 9.1

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